

WHAT IS CLAIMED IS:

1. A communication device comprising:

an antenna module which receives information transmitted through wireless communication and includes a receiver sensitivity measuring function;

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a determining unit which determines effectiveness of the received information in accordance with the receiver sensitivity measured by the antenna module;

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a category determining unit which determines a category of the received information;

a storage unit which stores the received information as effective information in accordance with determining results of the determining unit and the category determining unit; and

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an information deletion unit which deletes information of the same category received prior to the latest received information from the storage unit.

2. The communication device according to claim 1, wherein

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if a plurality of sending devices of the information are provided, the determining unit determines information transmitted from a sending device located at a relatively short distance to be effective by calculating distances from the sending devices of the information in accordance with the receiver sensitivity.

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3. The communication device according to claim 1,

further comprising;

a category information storage unit which stores category information indicating the category of the effective information, wherein

5 the category determining unit determines the relevant received information to be effective when the category of the information received with the antenna module matches the category indicated by the category information.

10 4. The communication device according to claim 1, wherein

the information deletion unit deletes previous information of the same category as the information from the storage unit before the effective information is stored in the storage unit.

15 5. The communication device according to claim 1, wherein

the information deletion unit deletes previous information of the same category as the information from the storage unit after effective and receivable information is stored in the storage unit.

20 6. The communication device according to claim 1, wherein

if a plurality of sending devices of the information are provided, the determining unit determines information transmitted from a sending device located at a relatively short distance to be

effective by calculating distances from the sending devices of the information in accordance with the receiver sensitivity, and

5 the information deletion unit deletes previous information of the same category as the information from the storage unit before the effective information is stored in the storage unit.

7. The communication device according to claim 1, wherein

10 the determining unit determines the information only of a particular category delivered from a wireless communication base station located at a relatively short distance to be effective,

15 the storage unit stores the information of the particular category determined to be effective by the determining unit, and

20 the information deletion unit deletes, from the storage, unit the information of the particular category that is received from the wireless communication stations other than the wireless communication station located at the relatively short distance.

25 8. A method of managing information applicable to a communication device having an antenna module which receives information transmitted through wireless communication and includes a receiver sensitivity measuring function, and a storage unit to store the

information,

the method comprising:

determining effectiveness of the information in
accordance with the receiver sensitivity measured with
5 the antenna module;

determining a category of the received
information; and

10 deleting information of the same category received
prior to the latest received information from the
storage unit.

9. A method according to claim 8, further
comprising:

15 receiving information of a particular category
delivered from a plurality of wireless communication
stations placed on plurality of places with the antenna
module;

20 determining the information only of the particular
category delivered from a wireless communication
station located at a relatively short distance to be
effective in accordance with the receiver sensitivity
measured with the antenna module, if the plurality of
wireless communication base stations are provided;

25 storing the information of the particular category
determined to be effective by the effectiveness
determining in the storage unit; and

deleting previous information of the same category
as the relevant information from the storage unit

before the effective information is stored in the storage unit.

10. A method according to claim 9, wherein
the deleting is to delete, from the storage unit,
5 the information of the particular category received from the wireless communication base stations other than the wireless communication base station located at the relatively short distance in accordance with a determining result of the effectiveness determining.

10 11. A method according to claim 9, wherein
the deleting is to retrieve and delete all the information of the particular category from the storage unit when the information of the particular category determined to be receivable and effective is stored in
15 the storage unit.

12. A method according to claim 8, further comprising:

receiving, with the antenna module, identification code information delivered from a plurality of wireless
20 communication devices placed with respect to each predetermined area;

storing information corresponding to the identification code information received with the antenna module in an internal storage unit;

25 selecting, from the internal storage unit, the information corresponding to the identification code information received from a wireless communication

device located at a relatively short distance among the
respective wireless communication devices;

determining suitability of reception of the
identification code information from the respective
5 wireless communication devices; and

deleting all the information regarding the
identification code information stored in the internal
storage unit when the reception of the identification
code information from the respective wireless
10 communication devices is not possible.

13. A method according to claim 12, wherein
the identification code information is information
to identify a position of the area on which the
respective wireless communication devices are placed.